

AMENDMENTS TO THE CLAIMS:

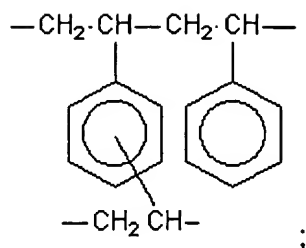
This listing of claims will replace all prior versions and listings of claims in the application:

1-17. (Canceled)

18. (Currently Amended) A plant growth factor peptide obtained by collecting cells from liliaceous plants, incubating the collected cells in a plant cell cultivation medium, and separating said plant growth factor peptide from the cells through centrifugation, wherein the peptide is either 4 or 5 amino acids long.

19. (Currently Amended) A plant growth factor peptide, wherein the plant growth factor peptide is either 4 or 5 amino acids long and has the following physico-chemical properties:

- a) it is soluble in water;
- b) it is acidic;
- c) it keeps 70% of its activity, after being heated at 100°C for 10 minutes and it is inactivated, after being autoclaved at 121°C for 20 minutes;
- d) it is a polar substance, and is not retained in reversed-phase columns with porous spherical silica particles with an average size of 75 µm and an average pore size of 120 Å and a synthetic adsorbent ion exchange resin with the following chemical structure



- e) it is stable at pH of 3 to 9, but at pH 11, its activity is reduced to 60%;
- f) it is inactivated by a proteolytic enzyme obtained from *Streptomyces griseus*, but it is not inactivated by Glycosidases "Mixed"; and
- g) it is adsorbed to 2-(diethylamino)ethyl-moiety containing ion-exchange resin (and eluted with 1000 mM KCl), but it is not adsorbed to a carboxymethyl-moiety containing ion-exchange resin.